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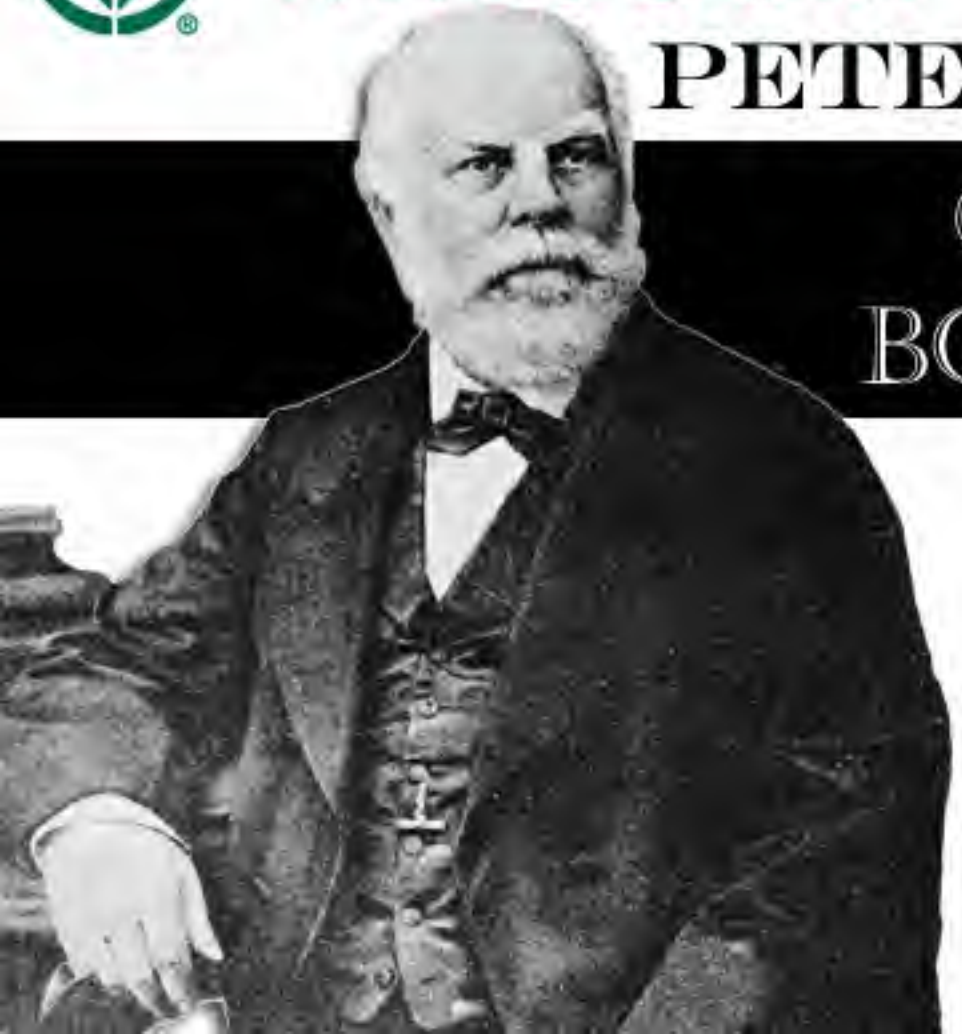

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Ephedra No 866 Jan 24 1882

"On Celtis" Aimwanda Pass, Mexico

G. Thurber No 866, 1852

fruiting

2 pair of larger
inner scales
3 pair of smaller ones
on sort of peduncle

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cm
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MISSOURI BOTANICAL GARDEN

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Alex. Leitch.

APOTHECARY & CHEMIST.

Cor. 4th & Olive Sts., St. Louis.

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3

Ephedra

Dec 6 1892

Texas Dr E Palmer 1291

"seed ? cone-form, but inside watery"

x4

ripe fruit red

all scales fleshy, red

immost scales united to middle

3 pair scales

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2

Cyclus

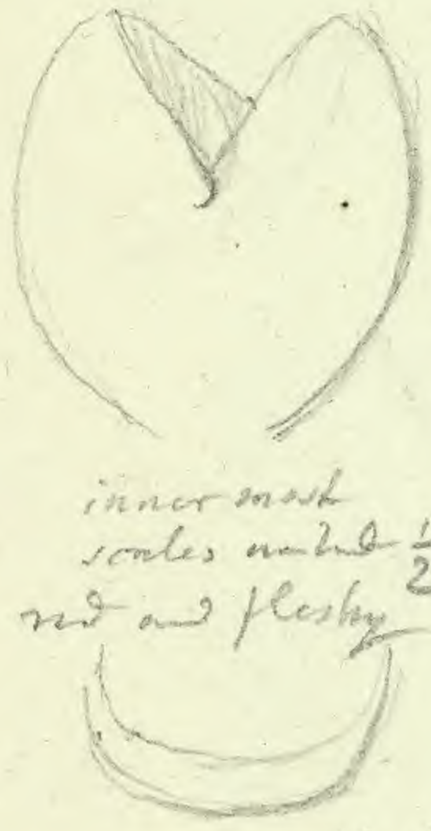
north of Mondova, Palmer 1290

Dec 6 1882

×4

3 pairs of scales

innermost connate to middle



innermost scales united ½ and fleshy

½ mm thick.

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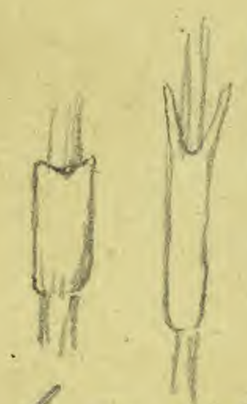
Ephedra

June 19 1882

Buena vista, Mex, Dr Gregg No. 53. 1847

inner scales

seeds always 2 flat convex ovate, obtuse



lower upper leaves

fruit red (fleshy fruits?)

2 or 3 outer
2 or 3 inner larger
pairs of scales
all connate

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Leitch & Corlies

WHOLESALE DRUGGISTS

South West Corner Fifth and Market Streets.

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C. A Meyer in Ledeb. Cent. p. 263

ramus cons. pennae anserinae ad articulos
nodosus (e ramulis aggregatis verticillatis natis)
prope suberatus punctatus obsolete tuberculat.
amenta masculi scapi - anther 5-6

Ephedra antisyphylitica

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4

Ephedra

Dec 8 1882

Rio Jan. Dr Palmer 1292

5 pair of scales slightly connate

immature (scales overlapping united 1/3

seed single

3-5 anthers, lowest pair of scales (as always?) sterile, bract most floriferous

perigon exsert

stipe long exsert

subsessile, approximately stipitate

3-5 anthers

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GEORGE ENGELMANN HERBARIUM

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5

Ephedra

Dec 6 1882

fruiting, 1-seeded

Rio Frio Texas,

very young fruit

ripe fleshy red fruit

4×

scales mucronate

3–4 pair scales

same sort scales united 1/3 one another, overlapping the others (which is already visible in the young fruit) with a broad membranaceous margin

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Ephedra

June 19 1882

Lindheimer, Guadalupe River

Leaves, flowers

×4

interior pair of bracts

×4

lower leaves

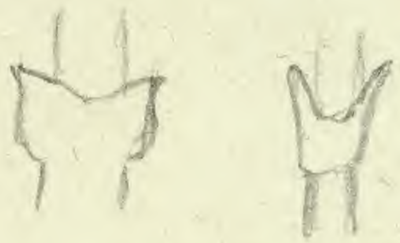
upper leaves

about ½ nat. size of scales

single seeds

Austin, E. Hall

Texas



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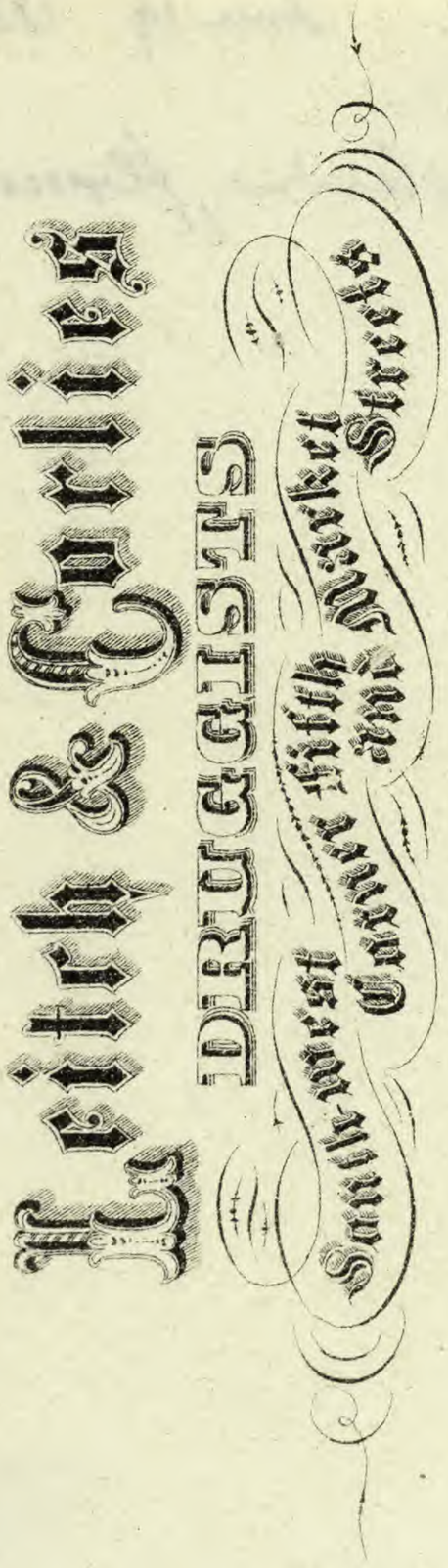

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Cyrtodeira
J. Parry 854
Salitre mexico 1878

June 19 1882

very young

x 4

5–6 pair of scales

inner pair of scales

a very stout rigid plant
fertile branches 3/4 = 1 Diam thick

δ anth all scales except the lowest small sterile, connate, 4 petals exsert
stamens 4 or usually 5 petals

Cult Hort

E. anisophylla Berlandier 1 pair has 5 or 6 anthers fide

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		flower	„	1	6 6
31.	0,30	**Bizard brillant.** Red, shaded with orange, striped with yellow and marbled with blood red; a sweet-scented variety . . .	„	3	16 „
24.	0,30	**Bizard Pronkert.** Yellow, striped with brown	„	1	6 6
30.	0,30	**Bloemmaert.** Violet rose, lightly bordered and striped with white	„	2	9 8
26.	0,25	**Bruid van Haarlem.** Brilliant carmine, striped with pure white	„	3	20 „
19.	0,30	**Brutus.** Lively orange brown, striped with golden yellow . .	„	2	12 „
35.	0,30	**Caméléon** (FLORE, XVI, 141). White, finely striped and speckled with light carmine, fringed petals	„	2	12 „
32.	0,30	**Cerise gris de lin.** Violet, striped with white	„	2	9 8
37.	0,30	**Cerise rectifiée.** Cherry red, lively striped with silvery white	„	2	8 „
47.	0,30	**Comte de Vergennes.** Carmine red, streaked with white . .	„	3	16 „
52.	0,30	**Constantine.** Orange red, striped with yellow on the edges .	„	2	12 „
57.	0,25	**Dona Maria.** White, flaked with red, very fine	„	2	12 „
59.	0,30	**Dorothée.** White, finely striped with red	„	2	12 „
77.	0,20	**Duc de Tholl rouge luisant panaché de jaune d'or.** Glossy red, streaked with golden yellow	„	2	12 „
95.	0,30	**Duchesse de Parme.** Red, strongly striped with yellow, fine flower, of perfect form	„	2	12 „
87.	0,30	**Drapeau de France.** Carmine, streaked with white. . . .	„	2	9 8
97.	0,30	**Ferdinand Bol.** Violet, finely striped with orange; a very distinguished variety.	„	3	16 „
134.	0,30	**Gelber Prinz** (FLORE, XVI, 139). Fine yellow, interior thickly flaked with brown	„	1	4 10
109.	0,30	**Globe de Rigaut.** Violet, striped with white.	„	2	9 8
114.	0,30	**Grand-Duc de Russie.** Large flower, reddish violet, shaded with white; a very distinguished variety	„	2	12 „
125.	0,25	**Jachtclub.** White, striped with red	„	3	20 „

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							s.	d.
—	„ 36	—	—	—	—	. . . . .	10	10
—	„ 26	—	13	—	—	. . . . .	5	8

1st, 2nd, AND 3rd SERIES.

EARLY SINGLE-FLOWERED TULIPS IN COLLECTIONS :

The preceding are but a few of the varieties of early single-flowered Tulips cultivated here. The whole collection is, however, placed at the disposal of amateurs and comprised in the following assortments :

							s.	d.
ASSORTMENT	**D.** 150	bulbs in	50	varieties	with names	. . . . .	20	„
—	„ 100	—	34	—	—	. . . . .	12	10
—	„ 75	—	25	—	—	. . . . .	10	„
—	„ 50	—	17	—	—	. . . . .	7	3
—	„ 24	—	8	—	—	. . . . .	4	„
—	**E.** 100	—	10	—	—	. . . . .	8	„
—	„ 50	—	10	—	—	. . . . .	4	6
—	„ 30	—	10	—	—	. . . . .	2	10

					s.	d.
100	bulbs,	mixed,	fine	. . . . .	4	10
50	—	—	—	. . . . .	2	10
25	—	—	—	. . . . .	1	8
12	—	—	—	. . . . .	1	„

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0 1 2 3 4 5 6 7 8 9 10 cm

Echeveria pedunculata Zucc.

Rio Frio, Jurgens. June 18 1882

Dr Parry 1851

×4

inner most bracts

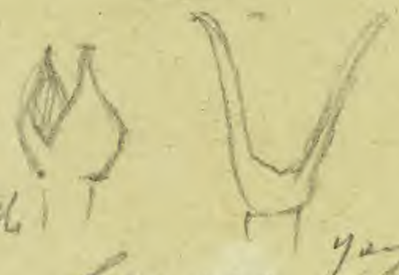
connate obtuse bracts on the base of the fertile expand sheath (perigon) 5-6 anthers, all more or less stipitate

male among mostly pedunculate

3-4 pairs of connate scales

a couple of pairs on peduncle

×4



fertile

leaves

gay shoot

Wright 673 Hills Grey from Valley of Devils River in the same, with 2 seeds in fleshy fruit

13394

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Leitch & Corlies
WHOLESALE DRUGGISTS
South West Corner Fifth and Market Streets.

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petrosa Rob Dec 1882

2 nuts usually 3 pair of scales
divided to nearly base
in western species (Mojave, St George)
4 & even 5 pair scales

leaves ¾ long & slender

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Torrey

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Ephedra pedunculata Engelm
Mexico
& Peru 1878

June 18 1882

×4

male cones
mostly sessile

inflorescence reduced,
pedunculate, 5–6 pair
of bracts beneath the
basal pair, gradually
larger; nuts in pairs
exsert.
bracts connate one half
or more
nuts oval, obtuse,
exsert

1 cone bracts.

about 7 anthers,
stipitate, 2 locul.
subsessile
general stipe broad,
circular bracts
connate at base,
sheath much exsert
& with 5 or 6 pair
of scales, connate
at base

COMPLIMENTS OF THE
GRAY HERBARIUM

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Leitch & Corlies
DRUGGISTS
South West Corner Fifth and Market Streets.

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LATE DOUBLE-FLOWERED TULIPS.

The flowering season of these Tulips is at the same time as the late single-flowered Tulips (*Show Tulips*).

N°	Height in centim.		Each. s. d.	Per cent. s. d.
419	0,50	**Bonaparte.** Salmon brown	„ 1	4 10
420.	0,30	**Bouquet doré.** Bright red, striped and flaked with very fine canary yellow	„ 5	„ „
433.	0,50	**Couronne Impériale.** Bright cherry red with a blue reflex and variegated with white	„ 2	12 10
450.	0,30	**Eblouissante.** Currant red	„ 3	„ „
481.	0,30	**Hof van Versailles.** Red, very large flower	„ 3	„ „
490.	0,45	**Koning der blauwe** (*Blauwe vlag*) (FLORE, XII, 83). Violet blue	„ 1	6 6
501.	0,30	**Luther.** Violet purple, bordered with white	„ 1	4 „
512.	0,50	**Mariage de ma fille** (FLORE, XII, 85 and XVI, 243). White, flaked with deep cherry red, very double, of majestic habit	„ 2	12 10
513.	0,50	**Mariage de ma fille extra.** White, striped and bordered with light cherry red, very large and double	„ 4	28 „
511.	0,50	**Molière.** Violet, shaded with brown.	„ 1	6 6
532.	0,35	**Overwinnaar.** Very double, white, striped and marbled with light violet	„ 2	8 „
542.	0,30	**Ploen goud.** Pæony red, variegated with golden yellow	„ 1	6 6
538.	0,30	**Ploen rood.** Pæony red	„ 1	6 6
563.	0,50	**Rhinocéros.** Purplish red, shaded with amaranth, very large and double	„ 1	6 6
556.	0,35	**Rose jaune.** Beautiful bright yellow, very sweet-scented	„ 1	4 10
583.	0,30	**Socrate.** Light yellow, striped with deep blood red	„ 3	„ „

8-29-33

cm 0 1 2 3 4 5 6 7 8 9 10
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631.	0,30	[illegible]			
548.	0,30	**Raphaël.** Enormous flower, pæony-formed, beautiful tender rose	„	10	76 „
577.	0,30	**Reine des cerises.** Creamy white, flaked with cherry red towards the interior	„	10	„ „
567.	0,35	**Reine des roses.** Rose merging into white, very fine	„	2	12 10
576.	0,25	**Rose aimable.** Large, rose, shaded with white	„	8	56 „
549.	0,30	**Rose blanche.** Snow white, very fine and double	„	10	76 „
581.	0,30	**Rozenkroon.** Beautiful lively carmine, very fine	„	4	28 „
657.	0,25	**Rubra maxima.** Deep red	„	8	56 „
575.	0,30	**Salvator Rosa.** Red and rose, very pretty	„	8	56 „
586.	0,20	**Triomphe de Bronstée.** Very large, fine violet, entirely striated with light yellow, magnificent	„	10	76 „
641.	0,20	**Violet foncé.** Very large, fine violet, admirable	„	10	76 „
658.	0,25	**Vuurbaak.** Brilliant orange red.	„	10	76 „

EARLY DOUBLE-FLOWERED TULIPS, NEW OR RARE, IN COLLECTIONS:

			s.	d.
ASSORTMENT **L.**	50 bulbs in 12 varieties with names, my selection		28	„
— „ 24 —	12 — — —	—	14	6
— „ 12 —	12 — — —	—	7	8

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cm 0 1 2 3 4 5 6 7 8 9 10

June 20 1892

Ephedra andina
Chili
Philippi & Hb Bridges

♂ *E. andina*
coll Bridges
similar, the
anthers filament
oval-globose

×4

4 pair of scales
2 seeds

×4

innermost pair
of scales
connate nearly
one half

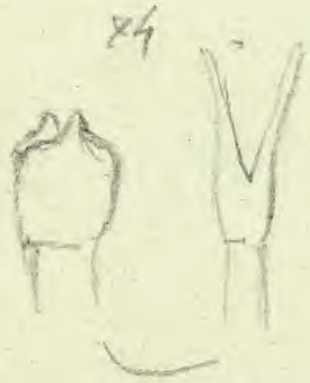
×4

scales of ♂ all
fertile, connate at base
sheath scarcely 1/2 as
long as inner stipe of anther, short recurved,
anthers 6-7 (-8) reniform

×4

leaves of
Philippi's specimen

×4



leaves of
Bridges' specimen

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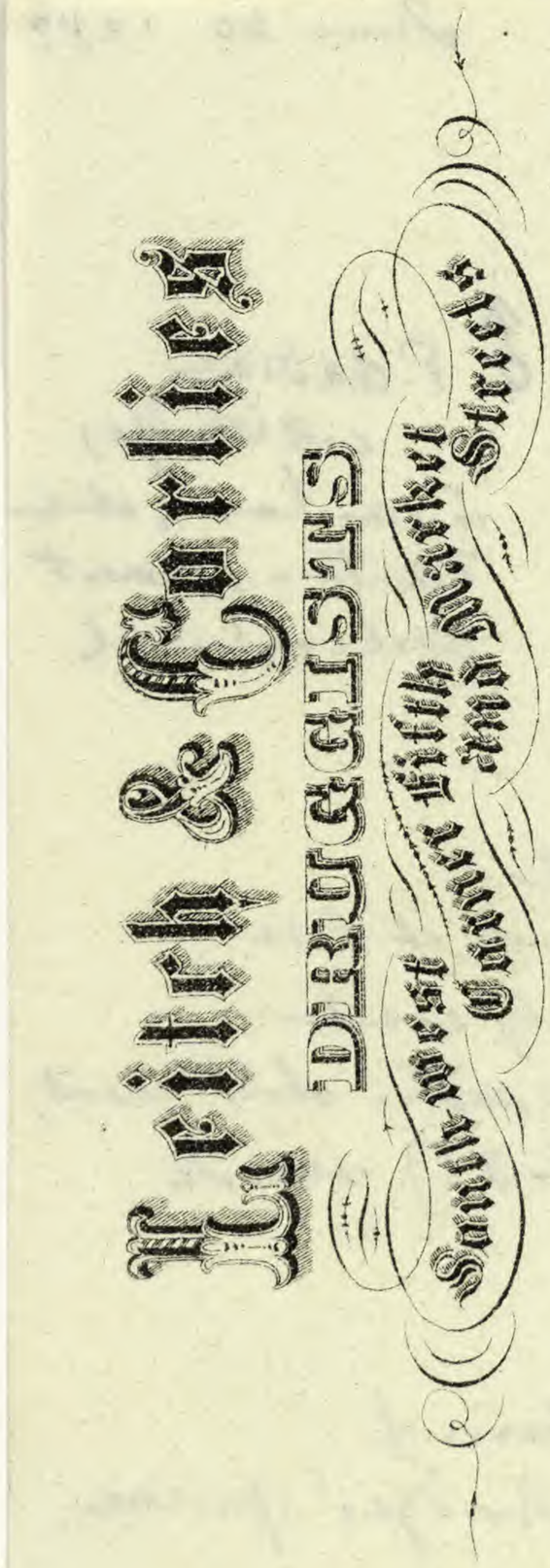

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N°		s.	d.
250.	**L'or d'Australie.** *A novelty*. Golden yellow bells.	1	3
330.	**Lord Byron**. Light blue with lilac reflex, very large spike	1	8
248.	**Lord Derby**. Light blue, enormous truss, very large bells.	2	6
242.	***Lord Gray.** Pale flesh, large bells and truss (L).	„	5
269.	***Lord Melville.** (FLORE, XVIII, 31). Very large and fine truss, shiny black with large pure white eye	„	10
263.	**Lord Palmerston.** Very fine bells, light blue with white eye (S)	1	3
243.	***Lord Wellington**. Flesh rose, very large bells, fine truss	„	5
245.	***L'unique.** Fine well-arranged truss, beautiful bells of purplish amaranth, a very fine colouring	„	4
292.	***Mad. Hodson.** Fine waxy rose with carmine ribbon, handsome spike	„	5
277.	***Mad. Vander Hoop.** Pure white, immense truss, fine.	„	8
329.	**Madem. Léonie Van Houtte.** *A novelty* of first-class; large and pyramidal truss, deep yellow bells	4	„
301.	***Madem. Rachel.** Lively rose, very large truss	„	8
278.	***Mammouth.** Pure white, immense bells with stout peduncle, magnificent truss (L).	„	5
332.	**Marcel.** Very large spike, enormous dark blue bells.	1	8
333.	**Margot.** Very large spike, large porcelain blue bells	2	„
281.	***Maria Catharina** (*Robert Steiger*). Beautiful carmine, exceedingly brilliant, large well-arranged truss; an excellent variety for forcing (L)	„	5
406.	***Maria Cornelia.** Very early variety; bells white, shaded with rose, fine truss	„	6
282.	***Maria Theresia.** Light rose, medium well-formed truss	„	4
300.	***Marie.** Bright blue, corolla deep blue, very large truss and finely arranged bells (L).	„	8
323.	**Marie Stuart.** Large pure white bells	1	3
283.	**Mars.** Very lively rosy carmine, compact truss; an excellent variety.	„	5
285.	**Mimosa.** Deep violet, changing to shiny black, very fine	„	4
286.	***Mirandolina.** Pure white, very fine bells, large spike.	„	5
287.	***Mrs. Beecher Stowe.** Bright rose, shaded with white, large spike.	„	10
288.	**M. de Faesch.** Very bright rose, large and well-arranged spike		

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No		s.	d.
144.	**Gigantea.** Pure pink, very large truss, magnificent.	„	5
143.	*__Goldfinch.__ Golden yellow, large truss	1	8
145.	*__Grand lilas.__ Very large and beautiful bells, porcelain blue, changing to light lilac, excellent (L)	„	4
135.	*__Grand maître.__ *A novelty.* Light blue, well-garnished truss, large bells	4	10
136.	*__Grand vainqueur.__ *Snow white*, large spike; a very early variety	„	5
461.	**Grand vainqueur.** *Sky blue*, grand truss	„	6
142.	**Grand vainqueur.** Large truss, of a fine *nankeen yellow*	„	6
137.	*__Grande blanche impériale.__ White with light pink reflex (L)	„	5
138.	*__Grande vedette.__ *Pearl blue*, shaded with sky blue, large bells; a fine variety (L)	„	5
139.	*__Grande vedette.__ *Pure white*, large spike (L).	„	6
140.	*__Grandeur à merveille.__ White, slightly shaded with pink, large and well-arranged truss, very fine (L)	„	5
169.	**Haydn.** Greyish amaranth, very large and handsome truss.	1	8
179.	**Hercules.** White, slightly tinted with pink, immense bells.	„	5
170.	**Hermann.** Pretty spike, nankeen yellow (L)	„	5
171.	**Héroïne.** Very large bells of a fine light yellow, very fine truss	„	5
173.	*__Hertog van Wellington.__ Porcelain blue, very large spike	„	4
174.	*__Homerus.__ Bright rose, striped with amaranth; a very early and distinguished variety, very suitable for forcing	„	5
178.	**Honneur d'Overveen.** Large and fine amaranth bells, very handsome	1	8
181.	*__Horace Vernet.__ Deep blue with white eye	„	5
175.	**Howard.** Very large truss, bright rose, well-arranged bells	2	„
[illegible]	[illegible] Pure yellow; one of the largest yellow varieties (S)	1	3
		„	10

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12249

cm 0 1 2 3 4 5 6 7 8 9 10
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Aug. 1st 1882
2d

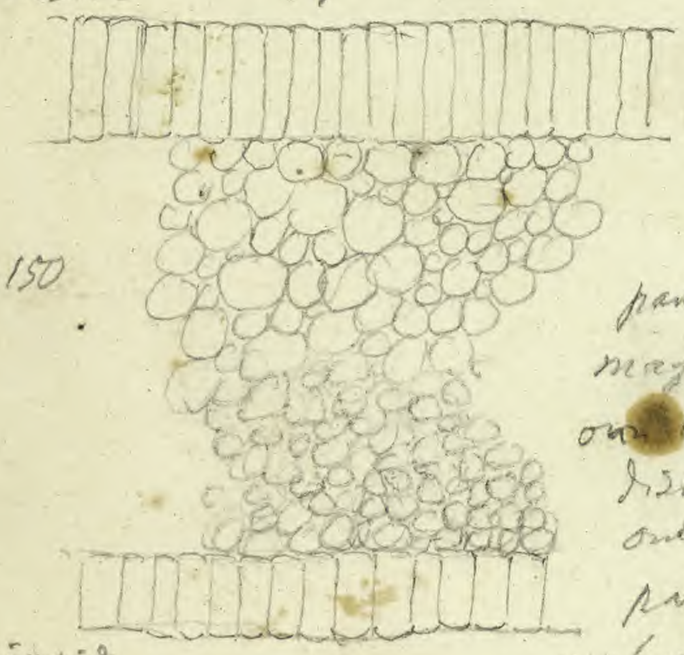
Ephedra Nevadensis is

×20

section of outer utricle
in a young flower
before unfolding

section near base
mag 20 diam

outside



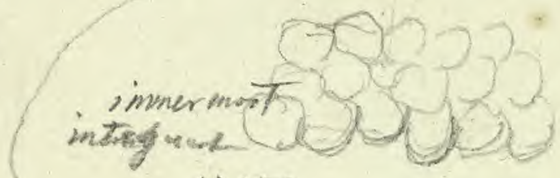
×150

inside

part of same
magnified

epidermis
on both sides very
distinct & thicker on
outside — small
parenchymatous cells
of very different size

no trace of vessels in the whole
section



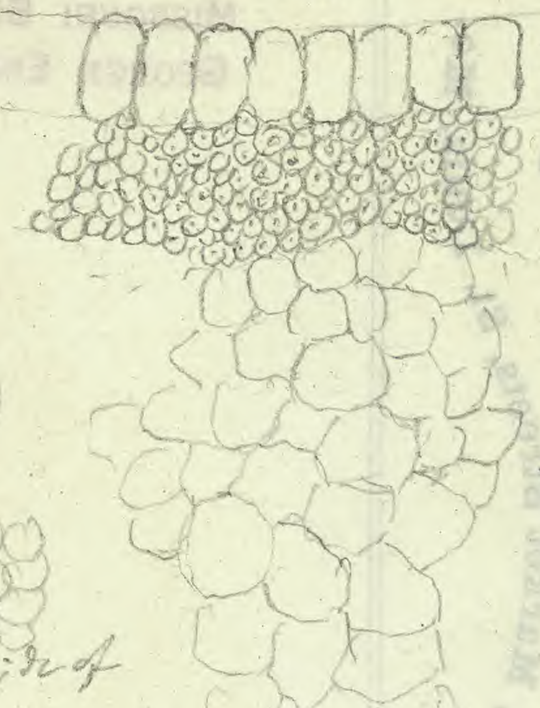
innermost
integument

×150

outer
integument

both inside of
utricle

E. California
inside

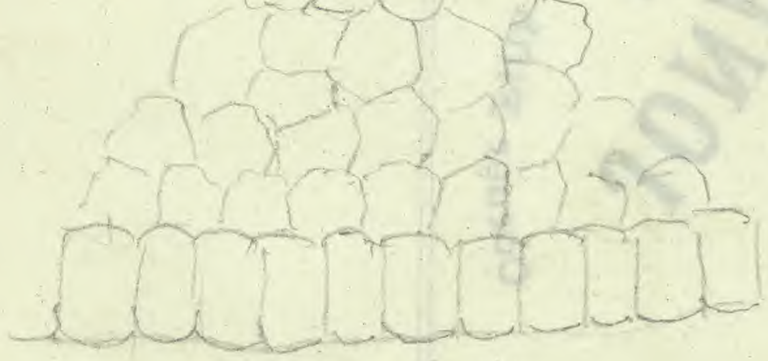


×150

utricular of
very young fruit
of E. California

on the inside a
layer of very small
thick walled cells
is developed. Lignous?

no trace of vessels
seen



outside

I have seen two real integuments of seed, beside the utricle,
both thin cellular membranes without epidermis

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN

13400

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

JONES & LEITCH,
DRUGGISTS,
Corner Fifth and Market Streets, St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
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Ephedra Nevadensis — Jan 21 1882

S. George Utah — Jones 1880

×½

not yet in flower

4 pairs of scales

2 flowers

cm 0 1 2 3 4 5 6 7 8 9 10
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13401

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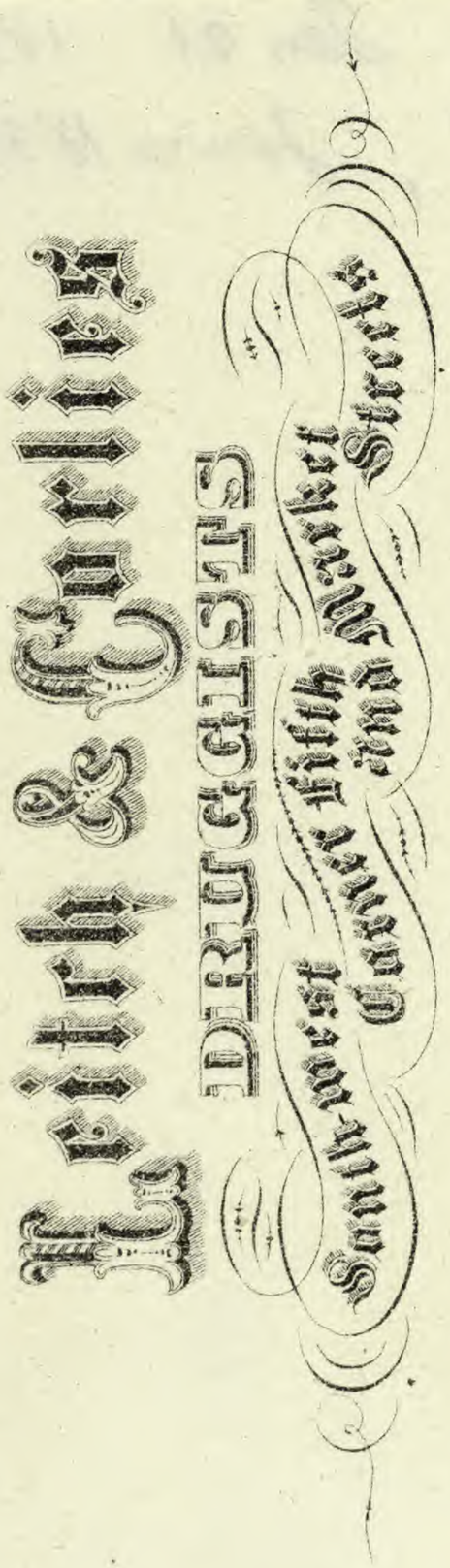

0 1 2 3 4 5 6 7 8 9 10
cm
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It is of importance that orders should state clearly whether the bulbs required are for forcing or the open ground.

								s.	d.
ASSORTMENT	**L.**	50	bulbs in	25	varieties	extra fine,	with names	40	„
—	„	25	—	25	—	—	—	24	„
—	„	12	—	12	—	—	—	13	8
—	„	6	—	6	—	—	—	7	3
—	**M.**	100	—	25	—	—	—	48	„
—	„	50	—	25	—	—	—	25	8
—	„	25	—	25	—	—	—	13	8
—	„	12	—	12	—	—	—	7	3
—	**N.**	100	—	25	—	—	—	40	„
—	„	50	—	25	—	—	—	20	10
—	„	26	—	13	—	—	—	10	10
—	„	12	—	6	—	—	—	5	8
—	**O.**	100	—	10	—	—	—	28	„
—	„	50	—	10	—	—	—	14	6
—	„	24	—	8	—	—	—	7	8
—	„	12	—	6	—	—	—	4	„

Double Hyacinths in fine mixture, without names:

The following mixtures are for beds only, and considering price and flowers of same, they contain but an inferior quality and cannot be compared to those bulbs sold with names; — we therefore decline to accept any claims or observations regarding them, as specially many persons use them for forcing.

ASSORTMENT **P.** White	*per*	100.	21	8
	per	50.	11	3
	per	25.	6	„
	per	12.	3	3

Nº		s.	d.
788.	***Milton**. Deep dazzling red, pyramidal truss	1	8
790.	***Miss Kitty**. Blush with violet centre, tips green, very double (L)	„	5
787.	***Miss Nightingale**. *A novelty*. Very double, snow white, gigantic truss.	4	„
794.	**M. Stegerhoek**. Very fine, magnificent deep red.	„	5
792.	***Murillo**. Very large, sky blue	„	8
815.	***Noble par mérite**. Handsome red, beautiful spike.	„	5
813.	***Non plus ultra**. White with deep violet eye, bells large, very double and pendulous, very fine.	„	5
823.	**Ophir d'or**. Large, nankeen	„	5
824.	***Othello**. Shiny black, interior petals violet (S)	„	4
843.	***Paarlboot**. Pearl blue, fine	„	4
842.	**Passe Virgo**. Pure white, magnificent truss	„	6
859.	***Prince Albert**. Very double, finely formed bells of intense deep blue,	„	8
846.	***Prince de Saxe-Weimar**. Martagon-shaped bells of indigo blue, immense truss (L)	„	5
838.	***Prince d'Orange**. Lively rose, beautiful pyramidal spike.	„	10
847.	***Prince de Waterloo**. Pure white, very large bells and truss, admirable	„	6
848.	**Prince Frédéric**. Lilac blue, very double	„	5
849.	**Princesse royale**. Rosy carmine upon a white ground, centre violet, handsome truss; one of the finest varieties grown (S).	„	5
850.	**Prolifera monstrosa**. A curious variety; bells in clusters of three, pale lilac	„	10
884.	***Regina Victoria**. Very double, beautiful rose truss	„	4
893.	**Rembrandt**. Very double, light blue, exterior petals green	„	8
886.	***Richard Steele**. Tube of the most beautiful azure, the interior violet, bells semi-double, distant	„	5
	[illegible]utiful spike	„	10
		„	8

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cm 0 1 2 3 4 5 6 7 8 9 10
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Cakeva Americana

H&K in Hb Berlin

June 20 1892

×4

4 pair of scales

2 seeds

inner pair of scales, united only ¼ or ⅓

×4

leaf parts

13403

MISSOURI BOTANICAL GARDEN
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MISSOURI BOTANICAL GARDEN

Ephedra oxycarpa
Parish Jun 82

Aug 2 1882

ethrede of nearly ripe fruit

×150

inside

light brown

brown

outside

E. California

Section of Ovary of fem. flower

upper side

no vessels seen

×150

lower side

outside

×150

tough longitudinal and globose parenchyma cells of leaf

D'OHO'D
CO
HICH
OTHEOCARPA
Cuming, W. & Co.
LONDON.

13404

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

D'OENCH & CO.,
APOTHECARY,
S. W. Corner of Second & Mulberry Streets,
ST. LOUIS, MO.

0 1 2 3 4 5 6 7 8 9 10
cm
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